

## ABSTRACT OF THE DISCLOSURE

A new system for simulation of electrical circuits and devices over a network is disclosed. The system consists of at least a client computer, a server computer, a network that connects them (including intermediate proxy servers and routers) and software methods. New software methods are disclosed that combine client-submitted data from the internet with template data, simulate the combined data using a simulator such as SPICE and create display and other data for transport to and display on the client computer. Additional methods are disclosed relating to circuit synthesis prior to simulation, access control, limiting resource use and abuse, expiration of temporary files and identifiers and usage logging.

SECRET